

Name: \_\_\_\_\_

### p1029: Box multiplication of linear binomials (v2)

#### Example

Use the box method to multiply  $(6x + 3)$  and  $(2x + 4)$ .

*	$6x$	$3$	
$2x$	$12x^2$	$6x$	$12x^2 + 6x + 24x + 12$
$4$	$24x$	$12$	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER:  $12x^2 + 30x + 12$

#### Question 1

Use the box method to multiply  $(6x + 8)$  and  $(7x + 2)$ .

*	$6x$	$8$	
$7x$	$42x^2$	$56x$	
$2$	$12x$	$16$	

ANSWER:  $42x^2 + 68x + 16$

### Question 2

Use the box method to multiply  $(-6x + 2)$  and  $(-5x - 9)$ .

*	$-6x$	$2$
$-5x$	$30x^2$	$-10x$
$-9$	$54x$	$-18$

ANSWER:  $30x^2 + 44x - 18$

### Question 3

Use the box method to multiply  $(-4x - 7)$  and  $(3x - 9)$ .

*	$-4x$	$-7$
$3x$	$-12x^2$	$-21x$
$-9$	$36x$	$63$

ANSWER:  $-12x^2 + 15x + 63$